

PRESIDENT- LANCE DUNBAR-AL7BK-337-6297 CLUB PHONE: 345-0719

MAY

1 9 8 7

MAY 1 . . General Meeting 7 PM Spenard Rec Center 2020 W. 48th Street

MAY 2 . . "WALK FOR HOPE" See Bill Reiter if you can Help

MAY 9/10. . "Messages to MOM" Sear Mall Offer your Help. See Lance.

MAY 13 . . Board Meeting 7 PM Hope Cottage Meeting Room Bering Street between Northern Lights and Benson

MAY 30 . . PARKA Social Meeting 10 AM TBA

JUNE 5 . . General Meeting 7 PM Spenard Rec Center 2020 W. 48th Street

JUNE 10 . Board Meeting 7 PM Hope Cottage Meeting Room Bering Street between Northern Lights and Benson

VEC NEWS - NEW HAMS AND UPGRADES

ANCHORAGE

FDWARD BOSCO, JR.

CINDY FNGLISH
WILTBAK
WILTBAK
WILTBAA
NOVICE
TECHNICIAN
NOVICE
TECHNICIAN

FAIRBAUKS

TECHNICIAN NO LICENSE JAMES CHAPMAN TECHNICIAN EXTRA NL7HI JAMES DIXON WL7BHM **EXTRA** CHARLES RUERUP, JR. GENERAL EXTRA WL7BLN ROBERT SCOGGIN JR NO LICENSE TECHNICIAN CAROLYN WILLIAMS

submitted by Roger Hansen, KL7HFQ, VEC Director)



Hoo! Boy!!! I thought I'd never get enough of this clutter cleared away from the keyboard in time to do this monthly column. Got the Heathkit SB-104 torn down for maintenance. and tools and schematics are scattered all over the work area. You'd think that I'd be a bit more organized than that!!!

Happy to report that I have found a good trio for the Officer Nominating Committee. Howard Hornsby. AL7GS. "chair-in-charge". is working with Nancy Laws. NL7HK. and Sheri Runyan. AL7FJ ("railroaded at the April meeting"). to come up with nominees who are guaranteed to "protest vigorously." but will eventually be persuaded to do the best possible jobs in the club's behalf. If you want to help your club and Ham Radio. give one of them a call and get your name on the list of nominees. YOU CAN MAKE A DIFFERENCE!

As I write this. I am saddened by the apparent lack of response to the annual Mothers' Day event. Only 5 of you bothered to volunteer your services when the signup sheet was circulated at the April meeting!! That's appalling!! Here's an opportunity to help others feel good about something by sending a simple greeting to their loved ones, and only a few of you seem to care. Maybe Wayne Green is right. Maybe Ham Radio in America is fading into the sunset. You seem to want all the privileges, but none of the responibilities. Wake up and get involved, and help out when you can.

Gene Mockerman. KL7GID. net manager for the Motley Group. has announced that the annual picnic will be held on July 18 and 19 at Byers Lake. mile 149 Parks Highway (I think). Plan to be there. Gene and his group of volunteers are also putting the finishing touches on "all new" Motley Group directory. an invaluable listing of active hams around the state. Last year's directory contained 307 listings.

For you Novices and Techs. a new net has formed at 28.400 MHZ. USB. It meets daily at 8:00 PM local time.

Also for Novices and Techs. and anyone else who would like to increase code speed: I am willing to conduct a bi-weekly code practice net on either 15 or 10 meters. Please let me know so that I can get it organized. I can run the speed from 5 wpm to as high as you desire. but I need to know ahead of time so that I can plan for it.

I am pleased to announce that, with the help of the "Club Surplus Equipment Scrounger". Rick Marvin (KL7YF). Fred Toliver (KL7HM) has shipped repeater equipment to the hams on the "Big Island" in Hawaii to help them establish a needed repeater there.

Not much else going on around here, except that the HF bands are getting more and more interesting as propagation improves. Improved opportunities to work that "One you've been looking for" or the rare DX. AL7BB reports that he has been averaging about 80 contacts in 3 or 4 hours on 20 meters. Might want to check it out.

april 13, 1987

Jo: - all Members

Anchorage Amateur Cadio Olub

70 NLTDK (Harvey Corbus)

3318 Checkmate Drive

Anchorage, al 99508

We, again, want to express our sincere appreciation to the anchorage Redis Clut membership for the "Honorary Life Memberships" to the aarc.

The certificates were delivered to our stations today. They will, proudly, be displayed in our "shade" at matara Creek.

Thank you, all ?

73" and 38"

Del and Grosmany

KL7JKW es KL7LA

Oneselenania e a a e e			
Table 2 (continued) Element 3A (Technician) Or	uestion Pool	30-85 p 4-10	35-3.6 p 6-0
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3A-13.10	3C-9.1 p.3-11	3E-11.4 p 5-6	342.4 p 8-0 342.5 p 9-0 342.6 p 9-0
34-14.1	3C-9.2 p 3-11	3E-11.5 p 5-6	31-4.1 p 9-1
34-14.2	3C93 p3-11	3E-12.2 p 5-5	3-4.2 p 9-1
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3A-14.5 3A-14.7	3C95 p 3-11 3C95 p 3-11	3E-14.3 p 8-6	31-4.4 p 9-1 31-4.5 p 9-9
3A-15.2		35-14,10 p 5-6	314.5 0 040
34-17.1	SUBSLEMENT SAD	36-14,11 p 5-6	31-4.7 9 9-9
34-17.2	3D-1.5 p.4-1	SUBSTLEMENT 3AF	344.0 0 9-0
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3B-1.1 p 2-3	3D-1.4 D 4-1 3D-2.1 D 4-5	3513 063	34-8-3 p 9-15
3B-1.2 p.23	30-2.2 9 4-5	36-1.4 p 6-3	35-9.1 0 9-16
3B-1.3 p 2-3	3D-2-3 p 4-5	3F-1.6 p 6-3	31-9.2 p 9-16
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38-1.7 p 2-2	30-5.2 p 5-7	3F-2.2 p 6-4	31-10.2 p 9-18
3B-1.5 p 2-2	30-5.3 p 9-18	3F-23 p 6-7	34-10.3 p 9-16
38-1.9 p 2-2 38-1.10 p 2-2	3D-5.4 p 9-18 3D-7.1 p 4-8	3F-2.4 p 6-7 3F-2.5 p 6-4	31-10.4 p 9-18 31-11.3 p 9-13
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38-1.12 p 2-2	30-7.3 9 4-8	3F-3.1 p 6-9	31-11.5 p 8-14
3B-1,13 p 2-2	3D-7.4 p.4-8	35-3.2 p 6-9	3-11.9 p 9-13
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38-1.15 p 2-2	30-8.2 p 4-10	35-3.4 p 6-4	30-12.3 p 9-18
38-1.15 p 2-2 38-2.5 p 3-8	3D-8.3 p.4-10 3D-8.4 p.4-10	3F-3.5 (First One) - p 6-8	35-12.4 p 9-18
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24.3.2	3B-8.8 a 2-13	20-15.1 0 4-12	HAR THOMASHAR
34.33	28-4.0 5 2-52	30-152 9 4-13	3H-2.1 p 8-2
24-3.4	38-10.1 p 2-17 38-10.2 p 2-17	20-15.3 p 4-8 20-15.4 p 4-8	3423 9 84 3424 9 86
34-3.5		30-17.2 p 4-15	3H-3.1 p 8-2
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3A-6.3	30-1.10 93-3		3H-5.2 p 8-6
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34-0.1	30.23 0.33	35-1.1 p 5-23	3H-8.1 p.8-3
24-0.2	3G24 # 33 3G33 # 35	3E-1.2 p 6-23 3E-3.1 p 6-21	3H-8.2 p.8-3 3H-8.1 p.8-3
24-9.2	30-33 93-5	35-3.1 p 6-21 .	39410.1 p 3-11
34-0.4	306.1 934	3E-3.3 p 5-21	36-10.2 0 8-11
3A-9.5 3A-9.6	2012 -25	95.74 0.5.92	3H-11.1 p 8-5
34-9.7	3053 936	3E-3.5 9 5-21 3E-6.1 9 5-24	36-13.1 p.8-4
34-9.5	3G5.4 9.34 3G5.5 9.34	35-6.1 p 5-24	3H-13.2 p 8-4
34-0.0	304.2 p 3-10	35-6.2 p 6-24 35-6.3 p 6-24	34-15.1 p 8-12 34-15.2 p 7-14
3A-9.10 3A-9.11	30.64 0.330	35-6.4 1 5-24	3/4-18.4 0 8-14
34-9.12	3045 p34	35-6.4 µ 5-24 35-7.2 p 6-21	394-16.5 p 6-14
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34-9.16	3073 p 3-6 307.4 p 3-6	3F-10.6 p 5-11	3-1.9 p 5-11
3A-10.1 3A-10.2	307.5 9 3-6	36-10.5 p 5-11	31-2-5 p 8-6
34-10.3	30-7.6 p 3-6	36-10.0 p 5-11	33.1 9 84
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34-10.E	3C-10.3 p 3-7	35-12.3 p.5-5	31-3.5 p 8-9
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3A-14.3(Second one) 3A-14.5	30-15 p 4-1	. 3E-14.1 p 5-5	24-5.1 9 8-3
3A-15,1	30-1.6 9 4-4	3F-14.2 p 5-5	3I-5.2 p 8-11
34-15.3	30-1.7 p 4-4	3E-14.3 p 6-18 3E-14.4 p 5-14	345.3 p 6-12
24-15-4	3D-1.8 9 4-2 3D-1.9 9 4-4	3E-14.4 p 5-14 3E-14.5 p 5-5	34-5.4 p p-12 34-6.1 p p-8
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3B-2.10 , p 2-8	3D-5.5 p 8-7	3F-2.6 p 6-7	34-9.5 p 8-17
38-2-11 - p 2-8	20-5.6 p 8-7 30-5.7 p 8-7	3F-2.7 p 6-7 3F-3.5(Second One)	3-11.1 p 8-14 3-11.2 p 8-14
38-2.12 p 2-8 38-3.8 p 2-4	30-5.7 p 6-7 30-6.1 p 4-6	p 6-11	31-11.2 p 8-14 31-11.4 p 8-14
38-3.12 p 2-6	30-6.2 p 4-6	35-4.1 p 6-12	39-11.7 0 9-14
38-4.1 p 2-2	3D-6.3 p 4-6	3E-19 0 E-19	31-11.8 p p-13
38-4.2 p 2-2	30-6.4 p 4-6 30-9.1 p 4-11	3F-4.3 p 6-12 3F-4.4 p 6-12	34-11,10 p 9-13 34-11,12 p 9-13
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3B-5.2 p 2-12	3D-10.1 p 4-19	3F-5.4 p 6-15	31-12.5 p 9-18
39-63 p 2-12	3D-10.2 p 4-19 3D-10.3 p 4-19	BUREL EMENT 3BG	
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38-8.4 p 2-13	30-13.2 p 4-15	3G-1.8 p 7-2	

SUBSECULATIONS 9 QUESTIONS

- What are the five principles that supress the fundamental purpose for which the Frateur Rails Service rules are designed? What is the AWEER PARIS COMPANIES? Chat is AWEER PARIS COMPANIES? Shat is an AWEER PARIS OFFERER? Shat is an AWEER PARIS OFFERER? Shat is that portion of an amateur radio license that conveys operator netwidens.

- 5.1

- What does the term CH moun?
 That, if any, privileges are authorized to Movice control operators beside existion ALA?
 What telegraphy code may a Movice control operators use?
 Which, if any, telegraphy codes may aMovice control operator use beside the international Morse code?
 What does the term SMISSICN mean?
 What is the term used in the roles for a transmission from an amother station? 12.7
- 12.9
- 12.10
- station?
 Shat does the term DEISSICH PRIVILEE mean?
 Which persons are eligible for an amateur operator license?
 Which persons are sligible for an amateur station license?
 What are the requirements for the melling address each amateur licensee
 must furnish to the FCC? 15.1
- May must an aretour licensee be certain that the FOC has his/her current mailing address on file at all times? 15.2
- Call signs assigned to ammiteur stations licensed to new Howices are from 16.1
- which call sign group?
 What is the format of a Group O call sign?
 What are the call sign prefixes for aneteur stations licenses by the FOC?
 What determines the number in an ameteur station licenses by the FOC? 16.3
- 16.4
- 18.1
- For how long a period is an ameteur station lionse?
 For how long a period is an ameteur operator ileuse normally valid?
 For how long a period is an ameteur station lionese normally valid?
 What is the maximum transmitting power ever permitted to be used at an ameteur station transmitting on frequencies availabel to Novice control For new long a period is an american station liberals normally valid?

 What is the naxuman transmitting power ever penalited to be used at an american station transmitting on frequencies availabel to Novice control operators?

 What is the amount of transmitting power that an american station must never exceed when transmitting on 7725-blz?

 What is the amount of transmitting on 7725-blz?

 What is the amount of transmitting on 7725-blz?

 What is the amount of transmitting on 27150-blz?

 Who is responsible for the proper operation of an american station use?

 Who mays an american station have a control operator?

 Who must an american station have a control operator?

 Who does the FCC presume in the control operator of an american station, unless documentation entits to the contrarty?

 When must the control operator of an american station?

 Whene must the control operator be when the station is in operation?

 Whene must the control operator be when the station is in operator.

 Whene must the control operator be when the station?

 Whene must the control operator of an american station?

 Whene must the control operator of an american station?

 Whene must the control operator of a person's operator license be kept while the station?

 Whene must a person's station license be kept while the station is being operator in authorized FCC representative requesting to see it?

 Whene must a person's station license be kept while the station is being operator than the station location specified on the license?

 When suit a person's station license be while the station is being operator to an authorized FCC representative requesting to see it?

 When over a maximum station that is a pe 10.2
- 18.3
- 18.4
- 18.5
- 19.1 20.1

- 22.1 23.1
- 23.2
- 24.1
- 24.2
- 24.3
- 25.2
- 25.5
- 25.7
- 25.8
- 25.9

- station identification during a 15 minute CSO?
 What is the fewest number of times an anateur station must transmit its
 station identification during a 25 minute CSO?
 What is the fewest number of times an anateur station must transmit its
 station identification during a 35 minute CSO?
 What is the longest period of time during a CSO that an enateur station
 dows not need to transmit its station identification?
 What is the fewest number of times are anateur station must identify itself
 during a 5 minute CSO?
 With which ameteur stations may an FCC-licensed amateur station communicate?
 Under what circumstances may an FCC-licensed amateur station communicate
 with another station in a foreign country? 26.2

- 26.3 Which countries, if any, are listed in a current FCC Fublic Notice as having notified that their administrations object to amateur radio communications with stations in the United States?
 27.1 Where permitted, what typen of respaces may be transmitted between amateur stations of different countries?
 28.1 Under what circumstances, if any, may an amateur station be used to transmit messages for him?
 28.2 Under what circumstances of any may the countries be failed to

- 30.1
- messages for hire?
 Under what circumstances, if any, may the control operator be [aid to
 truncent pessages from an wasteur station?
 Under what circumstances, if any, may the control operator cause false or
 decopilys signals or communications to be trunsmitted?
 into is the term for the trunsmission from an ameteur station of the word
 INMIN when no actual enurgency has occurred?
 There what circumstances, if any, may the control operator cause unidentified
 radio communications or signals to be trunsmitted from an ameteur station?
 What is the meaning of the term UNIDENTIFIED RADIO CREATERITIONS OR
 SISTALS? 30.2
- 30.3
- SITUALS that is the term for transmission from an amateur station without the required station identification? The control operator of an amateur station interfere with or cause mulicious interference to radio communication interfere with or cause mulicious interference to radio communications. cations?
- lcations!
 What is the meaning of the term MALICIOUS ETTEMPERENCE?
 What is the term for transmission from an ametour station which are
 intended by the control operator to disrupt other communications in
- 32.1
- 32.2
- intered by the control operator to disrupt other communications in propress?

 If you were an anateur operator and you received an Official Notice of Violation from the PCE, how promptly must you respond?

 If you were an ammateur operator and you received an Official Notice of Violation from the PCE, to whose must you received an Official Notice of Violation from the PCE, to whose must you received an Official Notice of Violation from the PCE relating to a violation that ray be doe to the physical characteristic of your transmitting apparatus, what information must be included in your resonse?

 What frequencies may a flowing control operator use in the ameteur 10 motor band?

 What frequencies may a Novice control operator use in the ameteur 220-3%z band?
- 32.4
- band? What frequencies may a Hovice control operator use in the ameteur 1270-
- His bard? Has frequencies may a Hovice control operator use in the meateur 23-
- centimeter bend? 12.6
- contineths canal types are thorice control operators permitted to use on frequencies from 28.3 to 26.5 MHz? What emission types are Movine control operators permitted to use on frequencies from 20.1 to 25.3 MHz? 32.7

- frequencies from 20.1 to 29.3 MHz?
 What emission types are Novice control operators permitted to use on the anstern 20.44% band? Novice control operators permitted to use on frequencies from 1270 to 1295-481?
 On what frequencies in the 10-meter band are Novice control operators permitted to transmit emission FIB (RTTY)?
 On what frequencies in the 10-meter band are Novice control operators permitted to transmit emission FIB (RTTY)?
 On what frequencies in the 10-meter band are Novice control operators permitted to transmit emission JEE (single sideband voice)? 32.11

- J2.12 On what frequencies in the 220-MRz hand are Novice control operators permitted to transmit emission FTE (FM volce)?

 J2.11 On what frequencies in the 220-MRz hand are Novice control operators permitted to transmit emission AIA (CP)?

 J2.14 On what frequencies in the 220-MRz hand are Novice control operators permitted to operate pecket radio?

 J2.15 On what frequencies in the 1770-MRz hand are Novice control operators permitted to transmit emission FTE (FM volce)?

 J2.16 On what frequencies in the 1270-MRz hand are Novice control operators permitted to transmit emission AIA (CM)?

 J2.17 On what frequencies in the 1270-MRz band are Novice control operators permitted to transmit emission AIA (CM)?
- 32.18
- 32.20
- 82.23
- permitted to operate satisation AA (CST)?
 On what frequencies in the 1270-96x band are Howice control operators pursitted to operate packet radio?
 What is the maximum transmitting power permitted an ameteur station with a Novice control operator transmitting on the ameteur 10-meter hard?
 What is the maximum transmitting power permitted an ameteur station with a Novice control operator transmitting on the ameteur 220-97x band?
 What is the maximum transmitting power permitted an ameteur station with a Novice control operator transmitting on the ameteur 2170-97x band?
 What is the maximum transmitting power may an ameteur station with a Novice control operator use on the ameteur 220-97x band?
 What tast is used to describe ameteur communications intended to be received and prints automatically?
 What tast is used to describe ameteur communications for the direct transfer of information between computers?
 When must the license of an ameteur radio station in portable or mobile operation notify the PCL of such operation?
 When may you operate your ameteur radio station at a location other than the one listed on your station license?

SUBSLICIENT 29-MATER STATION OPPRATED PROCEDURES 2 QUESTIONS

- 1.2
- 5.2
- What does the S in the RST report mean?
 What does the R in the RST report mean?
 What does the R in the RST report mean?
 What is the meaning of the signal report RST 5 7 97
 What is the meaning of the signal report RST 5 7 97
 What is the meaning of the signal report RST 5 7 97
 What is the meaning of the signal report RST 5 9 9 7
 At what telegraphy speed should a CO message be transmitted?
 Why should amateur stations in communication with each other zero beat?
 Why should on-the-air transmitter tune-up be kept as short as possible?
 What is means by the telegraphy abbreviation CO?
 When the control operator of ameteur station WSYI is looking for a CM CSO with anyone, what message should be transmitted?
 What is means by the telegraphy abbreviation DE?
 What is message should the control operator of ameteur station WSYIC send in order to answer a CO message transmitted by ameteur station RSOOM?
 What is meant by the telegraphy abbreviation X?

7.1

- 8.1
- When should the telegraphy abbreviation K be used? What is meant by the telegraphy abbreviation SKP: When should the telegraphy abbreviation SKP used? What is meant by the telegraphy abbreviation AR? When should the telegraphy abbreviation AR?

- 10.1 What does CRS mean?
- then should CRS be transmitted? When stould CRS be transmitted? What Q signal should be transmitted to ask the control operator of another acateur station to send telegraphy slower?
- 11.3 What does ORZ mean?

- 11.5
- What does GRI mean?
 When should GRE be transmitted?
 What O signal should be transmitted?
 What O signal should be transmitted to ask who is colling your station?
 What is the format of a standard radiotelephone CQ call?
 How is the call sign KFRCH stated in Standard International Phonetics?
 How is the call sign KFRCH stated in Standard International Phonetics?
 How is the call sign KFRCH stated in Standard International Phonetics?
 How is the call sign KFRCH stated in Standard International Phonetics?
 What is the format of a standard KRTH CQ call?
 What are three common sending speeds for RTTY signals on the 10-meter 11.6 11.7 11.8
- 11,10

- What are three common sending speeds for RTTY signals on the 10-meter band?
 What is the commonly used RTTY sending speed above 50-MHz?
 What is the common use for an RTTY melibox?
 What is the term used to describe an automatic RTTY system used to store messages from ameteurs for later retreival by other anateurs?
 What do the letters "HIT" stand for?
 What do the letters "HIT" stand for?
 What do the term "cornected" mean in a packet-radio link?
 What does the term "conitoring" mean on a frequency used ofr packet 11.13

- 11.15
- radio?
- 11.17
- radio?
 What is a digipmenter?
 What is the meaning of the term METROPK in packet radio?
 What is the term used to describe a method of interconnecting a packetguide station used to retransmit data specifically addressed to be retransmitted by that station?
 What is the term used to describe a method of interconnecting packetradio stations so that data can be trunsferred over long distances?
 What sending speed is commonly used for packet-radio transmissions on the
 220-Whe band?
 What is a good way to establish a contact on a repeater?
 What is the main purpose of a repeater? 11,19
- 31,20
- 11,21

- What is the main purpose of a repeater? Why is there as "input" and "output" frequency to describe the operating frequency of any repeater? When should simplest operation be used instead of a repeater? 11,24
- 11.25
- What is an AUTOPATCHE
- What is the term used to describe a device that allows reposter users to make telephone calls from their portable or mobile stations? 11,27

SIMELEGOTIZO-BADIO WAVE PROPAGNITION 2 CLESTICIS

- What type of propagation uses radio signals refracted back to earth by the (cnosphery)
- What is the country of the term SKY-MANZ PEDPACATION? What is the area of week signals between the range of ground woves and the first-hop called? 1.3
- 2.4

- the first-hop called?
 What is the remaining of the term SKIP ZGRE?
 What is the meaning of the term SKIP-MAVE PROPAGATION?
 What type of radio wave propagation waters it possible for anateur stations to consumicate long distances?
 During what time of day, if at all, does skip propagation occur in the 60 1.7 band?
- During what time of day, if at all, does skip propagation occur in the 40 1.6
 - 1.9
 - During what time of day, if at all, does skip propagation occur in the 15 During what time of day, if at all, does skip propagation occur in the 10 1.10
- What type of propagation invilves radio signals that travel along the surface of the marth?
- 2.3
- NAT is the searing of the term CPCHR-MAVE PROPACATION?
 Daytims communication on 1.725-MHz is probable via what kind of propagation when the stations are located a few miles apart but separated by a low hill blocker the time datable makes Shering the line-of-sight path? Shering the line-of-sight path? Shering the usual effective range of ground-wave propagation compared to
- 2.4
- sky-wave propagation?
 What is meant by the term SUNSFOT CYCLE?
- 3,3
- 3.4
- What is the average length of the purspot cycle?

 During whit part of the sunspot cycle does the 10 meter band offer the best opportunities for working DN?

 During what part of the sunspot cycle does the 10 meter band offer the best opportunities for working DN?

 And a the average of the sunspot cycle does the 15 meter band offer the best opportunities for working DN?

 Why is the average of radiation reaching to earth from the sun important bo awateur radio communication in the IF bands?

 What are SUSPICE? 3.5

- 3.7
- 4.2
- What are SUSSPCTS?

 How many years make up the period of a typical sunspot cycle?

 Hey can a VMP or UNE radio signal that is transmitted toward a mountain often be received at some distant point in a different direction?

 May can the direction that a VMP or UNE radio signal is traveling be changed if there is a call building in the sey?

 Mest type of anterna polarization is normally used for communications on the 40-mater band?

 What bype of anterna polarization is normally used for communication on the 80-mater band? 4.3
- 4.4
- the 80-meter band?

 When type of antenna gularization is normally used for communications in the 15-meter band? 4.5
- 4.5
- What type of antenna polarization is normally used for repeater communications on the 270-48t band?
 What type of antenna polarization is normally used for repeater communications on the 1270-48t? 4.7

SUPERIOR TO-MOTER MADIO PRACTICE 4 QUESTIONS

- 1.1 How can an amateur station be protected against being operated by unauthorized persons?
- 2.7 May should all antenne and rotor cables be grounded when an awateur
- 2.2
- station is not in use? How can an amateur station be protected from damage due to a nearby lightening strike? 2.3
- 3.1
- 3.2
- Lightening strike?

 How can amster station equipment be protected from damage due to lightening striking the electrical wiring in the building?

 For proper protection from lightening striken, what pieces of eulpment should be grounded in an amster station?

 What is a covenient grounding point for an amster station?

 What should the chassis of each equipment in an amster station be connected to in order to protect against electrical shock hazards?

 What type of mafety equipment should be worn when climbing an anterne bower? 4.1

- For safety purposes, how high should all portions of a horizontal wire antenna be located? 4.2
- 4.3
- ancerns be located?
 What type of safety equipment should a person on the ground year while assisting another person working on an antenna tower?
 What is a likely indication that interference to a receiver is caused by front-ond RT overload? 5.1
- 5.2
- front-end RF overload?

 What is likely the problem when radio frequency interference occurs to a
 receiver regardless of frequency while an ameteur station is transmitting?

 What type of filter should be installed on a television receiver timer as
 the first step in preventing NF overload from an ameteur station transmission?

 What is meant by MR CADIATION?

 What is meant by MR CADIATION?

 What type of interference may radiate froms malti-band antenna connect to
 an improcessive band transmitter. 5.3
- 5.4
- 6.3
- smat cyps of intertures or may fastase them smatters and account of an improperly tuned transmitter;
 What is the purpose of shielding in a transmitter;
 What is the likely-problem when interfurence is observed on only one or
 two channels of a belevision recoiver while an amateur transmitter is
- transmitting? What type of filter should be installed on an amateur transmitter as the first 6.6
- 7.1
- 7.2
- 7.3
- Next type of filter should be installed on an anateur transmitter as the first step inveducing harmonic radiation?

 Why should the impedance of a transmitter final-amplifier circuit metch the impedance of the anterna or feed line?

 What is the term for the measurement of the impedance match between a transmitter final-amplifier circuit and the antenna or feed line?

 What accessory is used to measure RF power being reflected back down the feed line from the transmitter to the antenna?

 What accessory is often used to measure voltage standing wave ratio?

 What accessory is often used to measure voltage standing wave ratio?

 What accessory is often used to measure voltage standing wave ratio?

 What accessory is often used to measure voltage standing wave ratio?

 What accessory is often used to measure voltage standing wave ratio?

 The standing save ratio is higher at 3700-left than at 3750-left, what does this indicate about the entonna?

 If the standing wave ratio is lower at 3700-left than at 3750-left, what does this indicate about the entonna?

- 7.5
- 0.1
- If the standing wave ratio is lower at 3700-kHz them at 3570-kHz, what does indicate about the antenna? What kind of standing wave ratio bridge reading way indicate poor electrical contact between parts of an anterwa system? High standing wave ratio bridge readings seasure from a half-wave dipole antenna being fed by commiss cable can be lowered by doing what be the anterway. 8.2
- anterna?
 What precautions should you take when working with a 1270-28t wavegoids?
 What precautions should you take when you mount a USE antenna in a
 parmanent location?
 What precautions should you take before removing the shielding on a USE
 power amplifier?
- 9.3
- 9.4
- 9.5
- 9.6
- power amplifier?
 May should you use only good-quality, well-constructed coaxial cable and
 consectors for a UNF anterna system?
 May should you be careful to position the anterna of your 220-MHz handheld transculver away from your head when you are transmitting?
 Now can you niminise MF exposure when you are operating your 220-MHz
 hand-held transculver?
 May should you be careful to position the anterna of your 1270-MHz handheld transculver away from your head when you are transmitting?
 Now can you minimize MF exposure when you are operating you 1270-MHz
 hand-held transculver? 9.0

- Now can you minimize RF leakage from your URF anterns system? Why should you make sure your URF amplifier cannot be energized before you open the amplifier enclosure? Why should you never look into a URF seveguide when RF is applied? Why should you be sure that your transmitter cannot be energized before you work your URF anternas?

SUBJECT Z-SLETRICAL PRECIPUS 4 CUSTIONS

- What is MOLINGE? Electrons will flow in a copper wire when its ends are connected to what kind of source?
- The pressure in a vater pipe is comparable to what force in an electrical circuit? 1.3
- 2.1
- Circuit? What are the two polarities of a voltage? What is meant by the term DC? What is meant by the term DC? What type of electrical current does not periodically reverse direction? What is meant by the term MC?
- What is meant by the term AC?
 What type of current changes direction ower and over again in a cyclical narmer?
 What is meant by the term ELOCHYCAL CORDUCTOR?
 What are three good electrical conductor meteorials?
 What is meant by the term ELOCHYCAL DESLATOR?
 What area four good electrical insulating naturals?
 What is meant by the term ELOCHYCAL DESLATOR?
 What is meant by the term GEOT CHOULT?
 What is the term for an electrical circuit in which there can be no current?
 What is sent by the term GEOT CHOULTS. 3.2
- 4,1
- 5.1

- What is meant by the term SHORT CIRCUTT? What is the term for a failure in an electrical circuit that causes excessively What is the term for a failure in an electrical circuit that causes excessive high current?
 What is meant by the kerm DERENT?
 What is meant by the kerm DERENT?
 What is to consumed when a voltage is applied to a circuit causing an electrical current to flow?
 What is the approximate length, in meters, of a radio wave having a frequency of 1.725-7812?
 What is the approximate length in meters of a radio wave having a frequency of 21.150-7812?
 What is the approximate length in meters of a radio wave having a frequency of 21.150-7812?
 What is the approximate length in meters of a radio wave having a frequency of 21.150-7812?
- 8.1
- 9.1
- 11.1
- 11.2
- What is the approximate length in meters of a radio wave having a frequency of 7.125-Wiz?
 What is the approximate length in meters of a radio wave having a frequency 11.4
- 11.5
- of 28,150-1912?
- 13.1
- 13.2
- of 28.150-1912?
 What type of frequency is 3,500,000-hertz?
 What type of frequency;
 What type of frequency;
 What type of frequency is 350-hertz?
 What type of frequency is 3,500-hertz?
 What is the unit of electromotive frece?
 What is the unit of electrical current?
 What is the unit of electrical power?
 What is the unit of electrical power?
 What is a REMET?
 What is a PREMET?
 What is a popular term for hertz?
 What does the prefix PECA- mean?
 What does the prefix PECA- mean?
 What does the prefix PECA- mean?
 What does the prefix PECA- mean? 13.3 14.1
- 15.1

16.1

- 18.1

20.1

22.1

22.2

What does the prefix CT/TI-moun?
That does the profix CT/TI-moun?
A current of 2000-milliamperss is equivalent to how many amperes?
Must does the prefix MCCO-mean?
A current of 20 millionths of an ampere is equal to how many microsmpures?
What does the prefix FCCO-mean?
Four receiver dial is calibrated in segminate and shows a signal at 1200MES. At what frequency would a dial calibrated in gigaherts show the
signal?
Four receiver dial is calibrated in signalTour receiver dial is calibrated in signal-

grain receiver dial is calibrated in gigaherts and shows a signal at 1.27 a. At what frequency would a dial calibrated in megaharts above the 24.3 Giz.

signal? Your receiver dial is calibrated in megaherts and shows a signal at 223.9 No. At what frequency would a dial calibrated in kilcherts show the 24.3

2F-CIPOLIT COPONINS 2 (MISTICES

1.1

What is the general relationship between the thickness of a quartz crystal and its fundamental operating frequency
'That is the schematic symbol for a quartz crystal?
That advantage does a crystal controlled transmitter have over one controlled by a variable frequency oscillator?
What advantage does a variable frequency oscillator transmitter have over one controlled by a crystal oscillator?
'That bus internal components of a D'Arsonval mater interect to cause the indicating manual components of a D'Arsonval mater interect to cause the indicating manual components of a D'Arsonval mater interect to cause the indicating manual components of a D'Arsonval mater interect to cause the indicating manual components of a D'Arsonval though the meter?

That does a volumeter actually measure?

That does an ameter consuce?

The does an ameter consuce?

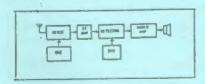
The does not be schematic symbol diagram of a tetrode vacuum tube and label the elements? 1.4

2.1

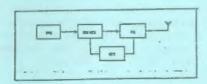
- 3.2
- Draw the schematic symbol diagram of a pentade vacuum tude and label the elements? 3.3
- What device should be included in electronic equipment to protect it from 4.1
- damage resulting from a short circuit?
 What happens to a fuse when an excessive arount of current flows through it? 4.2

STREET, 20-PACTION CROWS 2 QUESTION

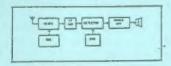
- Draw a block diagram representing the stages in a single crystal-controlled emission ATA transmitter? That type of transmitter does this block diagram represent?
- 1.2



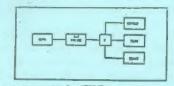
- Drew a block diagram representing the stages in a simple emission ATA transmitter having a variable frequency oscillator? 2.3
- What type of transmitter does this block diagram represent?



- Draw's block diagram representing the stages in a simple superhetrodyne receiver capable of receiving emission ATA telegraphy signals? What type of davice does this block diagram represent? 2.1

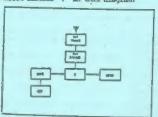


- Draw a block diagram representing how two different enterwas and a damay load can be connected to the same transceiver? What is the block labeled ? In this diagram? 3.1
- 3.2

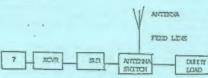


Draw a block diagram representing an ameter station including TANSETTER, RULLIVER, TELEGRAM MEY, TR SHITCH, STANDING MAYE PATTO ENDOS, ANTENSA THER and ANTENSA. 3.3

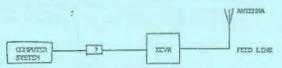
3.4 What is the block labeled ? in this diagram?



- 4.1
- In an ematter radio station designed for radiotalephone operation, what station accessory will you need to go with your transmitter? What is the unlabeled block (?) in this block diagram of a radiotalephone 4.2



- 4.3 In an amateur radio station designed for radioteletype operation, what
- In an amacour radio station designed for radioteletype operation, what station accessories will you need to go with your transmitter? Draw a block diagram showing how the purts of a radioteletype station connect. Include at least a radiom, transceiver, computer system or teleprinter, feedline, and antenna. In a packet-radio station, what device connects between the radio transceiver and the communications temporal?
- 4.5
- 4.6 that is the unlabeled block (?) in this diagram of a pocket-radio station?



4.7 Where does a terminal-node controller connect in an ampteur cocket-radio

SASLEST IN-SIGNLE NO EGINGS 2 CASTIGS

- Uhich type of emission is an EMISCUPTED CUTTLE HAVE? What does the term backwave mean?2.2 that is the probable cause of BACHAVE? What does the term REF CAICA mean? That does the term CHITP mean?
- 2.2
- 3.1
- What can be done to an emission ATA transmitting power supply to avoid 4.2
- what can be done to an esission AA transmitting power supply to avoid chirp?
 That is a common cause of superimposed hum?
 20,180-9Hz is the 4th harmonic of what fundamental frequency?
 That problem is a transmitter power amplifier stage may cause spurious emissions? 5.1
- emissions? What emission designator describes the use of frequency shift keying to transmit radioteletype nessages? What keying method is used to transmit FIB radioteletype nessages? What keying method is emission JIS? What emission designator describes frequency-modulated voice transmissions. 7.1
- 7.2
- 7.4 lons?
- that emission designator describes single-sideband suppressed-carrier (SSB) voice transmissions? What type of signal is emission FJE? 7.5
- 7.6 Fract type of signal is emission Fish.

 What may mappen to body tissues that are exposed to large amounts of RT energy?

 What presention should you take before working mear a high-gain (RT or micro-eve antenna (suce as a parabolic, or dish antenna)?

 Hey should you always locate your antennas so that no one can come into contact with bee while your are transatting?

 What is a good way to prevent NT burns and excessive exposure to RT from your universe.
- 7.8
- 7.9
- 7,10
- 7,11
- 7.12
- 7.13
- year immunerable with you cause if you operate your SSB transmitter with the microphone gain adjusted too high? What may happen if you adjust the microphone gain or deviation control on your FN transmitter too high? If your are using an excessive escent of speech processing with your SSB transmitter, what type of interference are you likely to cause? If you are operating SSB voice and another operator tells you that you are causing "splatter", what might be the cause of the interference?

SERVICE OF AUTOMS AND PER LINES I (URSTICE

- 1,1 What is the approximate longth of a 1/2 wavelength dipole anterna for
- What is the approximate length of a 1/2 wavelength dipole antenna for 1.2
- that is the approximate length of a 1/2 wevelength dipole anterms for 21,125-b/ts?
- hat to the approximate length of a 1/2 wavelength dipole antenna for 1.4
- Now is the approximate length of a 1/2 wavelength dipole antenna calculated? What is the approximate length of a 1/4 wavelength vertical antenna to 2.1
- resonate at 3725-kdiz? What is the approximate length of a 1/4 wavelength vertical antenna to resonate at 7725-kdiz? What is the approximate length of a 1/4 wavelength vertical antenna to resonate at 21125-kdiz? 2.2
- 2.3
- that is the approximate length of a 1/4 unvalength vertical antenna to resonate at 28150-01m7 2.4
- resonate at 20190-9007 then a vertical anterns is lengthened, what happens e its resonant frequency? That is CONCIAL CONCIA What kind of antenna feed line is constructed of a center conductor encased in insulation which is then covered by an outer conducting shield and 3.1
- teatherproof jacket?

 What are some advantages in using coaxial cable as an antenna feed line? 3.3
- What commonly-available anterna feed line can be buried directly in the ground for some distance without advarze affects? Which commonly-available feed line is best for an anterna feed line located near grounded metal objects? What is PARVLLL CORRECTOR FEED LINE? 3.5

- 4.3
- Mast are some advantages in using a parallel conductor feed line?
 What are some advantages in using a parallel conductor feed line?
 What has been disorventages in using a parallel conductor feed line?
 What him of antenne feed line is constructed of buo conductors maintained 4.4
- 4.5 What kind of antenna feed line is constructed of two conductors maintaine a uniform distance apart by insulated spreaders?

 4.6 What is the approximate length (in inches) of a 5/8-vavelength vertical antenna for the 220-98; band?

 4.7 Why do many anateurs use a 5/8-vavelength vertical antenna rather than a 1/4-vavelength antenna for their VFF or UFF mobile stations?

 4.8 What radiation pattern is produced by a 5/8-vavelength vertical antenna?

 4.9 What type of radiation pattern is produced by a 5/8-vavelength vertical antenna?

 4.10 Approximately how long (in vevelengths) is the driven element of a Yagi antenna?

 4.11 On the Yagi antenna shown in Figure 2I-6, what is the name of Section C?

 4.13 On the Yagi anterna shown in Figure 2I-6, what is the name of section A?





FOR SALE FOR SALE

2 Meter Kenwood 2600A Mobile Antenna, DC Converter, AC Wall Charger, Service Manual \$300 KA1MNB 745-2224

FOR SALE FOR SALE.

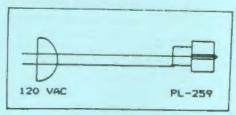
40' Crankup Tower TRI-EX Brand \$90 Call for details Jim Larsen AL7FS H 345-3190 W 264-7335.

WANTED WANTED WANTED

Assistant Editor for the Newsletter. To be used to assist in putting out the Newsletter, put on labels, take to PostOffice when the need arises. Also put out the Newsletter when the Editor is out of town counting Dogs or just Gone. Call NL7DK at 3334693 for details and Salary. Will be paid double the Editors Salary with no Deducts!!!

THE ULTIMATE FILTER

This item was designed by Jay Hennigan, WBGRDV and first publicized in the Santa Barbara Key Klix newsletter.



The device in the diagram above serves many useful purposes:

- 1. Convince the unwanted interfering station to install it on his transmitter and make the appropriate connections. His signal will magically disappear from your receiver. Although not recommended, the unit may be connected to your receiver...
- 2. Use it as an inexpensive burgular alarm for your antenna system. Anyone attempting to steal antennas protected by this device will be quite alarmed.
- 3. Use it as a TVI eliminator. Momentarily connect it to the TV receiver to permanently cure all forms of television interference. Stubborn cases may require treatment of the TV viewer as well.
- 4. Use it as a CB dummy load. Tell the CB dummy to tune his transmitter into it.
- 5. Use it as an ionization sample calibrator. Perform any of the above experiments within 50 feet of a smoke detector. Repeat at 40 feet, then 30, etc., making note of the detector sensitivity for future comparison.

I am sure you can come up with many more inovative uses for this handy device and that it will be a welcome addition to your hamshack.

EMERGENCY PREPARATION

by Don Giles

WD&FGU

While reading a newsletter sent by our ARRL representative from Seattle my eye was caught by a response from one of the hams in W7 land. The fellow was questioning the validity of all of this emergency preparation done by groups like RACES and ARES. I too, at times, had thought the time and effort spent in networks and practice drills was not needed but I remained a ARES volunteer and basically enjoyed this contact with the ham community. ARES came to mean much more to me in February, 1986.

We had lived in Napa, California since 1980 and I was involved in the local ham activities on VHF. Our repeater was on Mt. St Helena near the northern end of Napa valley and our ARES group used it for our net on Wednesday evenings in addition to our VIP program for the Forest Service where we served as communications operators for a fire spotting program during the summer months. Early February, 1986 brought torrential rains to the Napa area and most of northern California. We received over 6" of rain in one 24 hour period which came after days of steady downpours that had completely saturated the ground. The resulting runoff was carried into the Napa River and down the 26 mile long valley toward the top of San Francisco Bay. The town of Napa lies in the flood plain at the southern end of the valley and has a history of serious flooding.

The Napa River overflowed its banks as far upvalley as St. Helena and Yountville but the city of Napa and its 52,000 population were to take the worst shock of the floods. Our ARES group was put on alert on Sunday evening and mobilized early Monday morning. The group maintained a 2 meter rig at Red Cross headquarters and had been in the process of some packet experimentation but was not entirely equipped for packet operation. The phone and electric utilities were intermittant and the authorities were evacuating flood victims to temporary housing in churches and high school buildings.

I was assigned to a local evacuation center near my home in east Napa since the bridges were under water and it was not possible to cross town. We served as a "holding" center for those flood victims who required a temporary place until relatives could pick them up. At times, my rig was the sole communications link from the center to Red Cross headquarters and was used for all sorts of traffic. We found relatives, ordered blankets and supplies, checked weather conditions and handled administrative matters for the Red Cross. I was there until 2200 hrs when we closed for the night. I reported to the high school gym at 0800 the following morning and found about 500 people sleeping and living on the gym floor. I worked at the gym until 0100 hrs the following morning using generator power and

intermittant public utility power to provide communications with headquarters.

Over 5,000 people were relocated during the Napa flood and 1,530 were housed in temporary shelters staffed by the Red Cross. Of course, the flood destroyed the homes of those who could least afford it and who were without means to secure other shelter. The shelters were maintained until Thursday when most were able to return to their homes and start the cleaning process.

The ARES group was called again on Saturday to help with damage assessment throughout the valley. We provided mobile communications for damage assessment teams which directed assistance to those residents requiring help.

This effort was not perfect by any means but our ability to respond with a trained, Knowledgable group of radio operators using equipment that was capable of independent performance was the key to maintaining vital communications links between relief agencies and those in need. So, of course, the result is worth the training and practice involved. This type of situation doesn't happen very often but requires quick, efficient response by capable people when it does occur.



THIS IS A PAID ADVERTISEMENT

Kerry Robson

Yery soon Elections for the Iditarod Board of Directors will be held. Kerry will do a great job on the Board. For those of you who are members of Iditarod, please vote for Kerry Robson.

Kerry has been an Iditarod volunteer every year since 1983. That's five years. She is co-owner/manager of Computerland. Sound Fiscal Management is one of her strong concerns for Iditarod as well as fostering an atmosphere of fun for volunteers.

Support Kerry Robson.

Jim Larsen, AL7FS 1987 Iditarod Communications Coordinator



"You say you're from the FCC ?"

Submitted by KL7HO

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